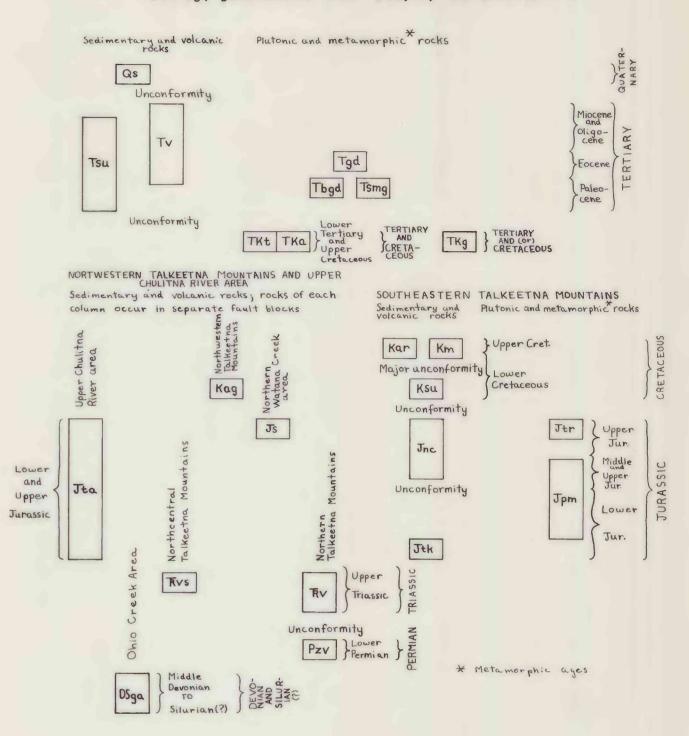
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PLATE 1 OF 2

Folio of the TALKEETNA MOUNTAINS Quadrangle, Alaska

CORRELATION OF MAP UNITS

Geology generalized after Csejtey and others, 1978



DESCRIPTION OF MAP UNITS

- Qs SURFICIAL DEPOSITS, UNDIFFERENTIATED (Quaternary).
- Ty VOLCANIC ROCKS, UNDIVIDED (Paleocene to Pleistocene(?))-Felsic and mafic subaerial volcanic rocks and related shallow intru-
- Tsu TERTIARY SEDIMENTARY ROCKS, UNDIFFERENTIATED (Paleocene to Miocene)--Terrestrial, mostly fluviatile strata with a few lignite
- Tgd GRANODIORITE (Eocene).

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Location Index

- Tbgd BIOTITE AND HORNBLENDE GRANODIORITE (Paleocene, in part early
- Tsmg SCHIST, MIGMATITE, AND GRANITE (Paleocene intrusive and metamorphic ages)--Migmatitic border zone of biotite and hornblende
- TKt TONALITE (Upper Cretaceous and lower Paleocene).
- TKa ADAMELLITE (Upper Cretaceous and lower Paleocene). TKg GRANITIC ROCKS, UNDIVIDED (Cretaceous and (or) Tertiary).
- Kar ARKOSE RIDGE FORMATION (Lower and (or) Upper Cretaceous).
- Km MATANUSKA FORMATION (Lower and Upper Cretaceous)
- Ksu SEDIMENTARY ROCKS, UNDIVIDED (Lower Cretaceous)--Shallow marine sequence of calcareous sandstone, claystone, and massive clastic
- Kag ARGILLITE AND LITHIC GRAYWACKE (Lower Cretaceous)--Intercalated, marine, flyschlike sequence.
- Js SEDIMENTARY AND VOLCANIC ROCKS, UNDIVIDED (Upper Jurassic)--Marine sequence of argillite, graywacke, conglomerate, and andesitic to latitic feldspar porphyry dikes and intercalated

- Jtr TRONDHJEMITE (Upper Jurassic)
- Jnc JURASSIC SEDIMENTARY ROCKS, UNDIVIDED (Middle and Upper Jurassic) --Includes Naknek and Chinitna Formations, and Tuxedni Group. Jta CRYSTAL TUFF, ARGILLITE, CHERT, GRAYWACKE, AND LIMESTONE (Lower
- calated sequence. Jpm PLUTONIC AND METAMORPHIC ROCKS, UNDIFFERENTIATED (Lower to Upper Jurassic)--Mainly quartz diorite, granodiorite, amphibolite,

to Upper Jurassic) -- Shallow to moderately deep marine, inter-

- and greenschist.
- Jtk TALKEETNA FORMATION (Lower Jurassic).
- TRVS METABASALT AND SLATE (Upper Triassic)--Intercalated, shallowwater marine sequence.
- TRV BASALTIC METAVOLCANIC ROCKS (Upper Triassic)--Mainly shallow water marine metabasalt flows.
- Pzv BASALTIC AND ANDESITIC METAVOLCANOGENIC ROCKS (Pennsylvanian(?) and Early Permian) -- Metamorphosed marine sequence of interlayered basaltic to andesitic flows, tuffs, coarse volcaniclastic rocks, and subordinate mudstone and limestone.
- DSga GRAYWACKE, ARGILLITE, SHALE, AND LIMESTONE (Silurian(?) to Middle Devonian -- Intercalated marine sequence, probably continental margin deposits.

EXPLANATION OF GEOLOGIC MAP SYMBOLS

Contact, approximately located _____

Approximate contact of surficial deposits 7

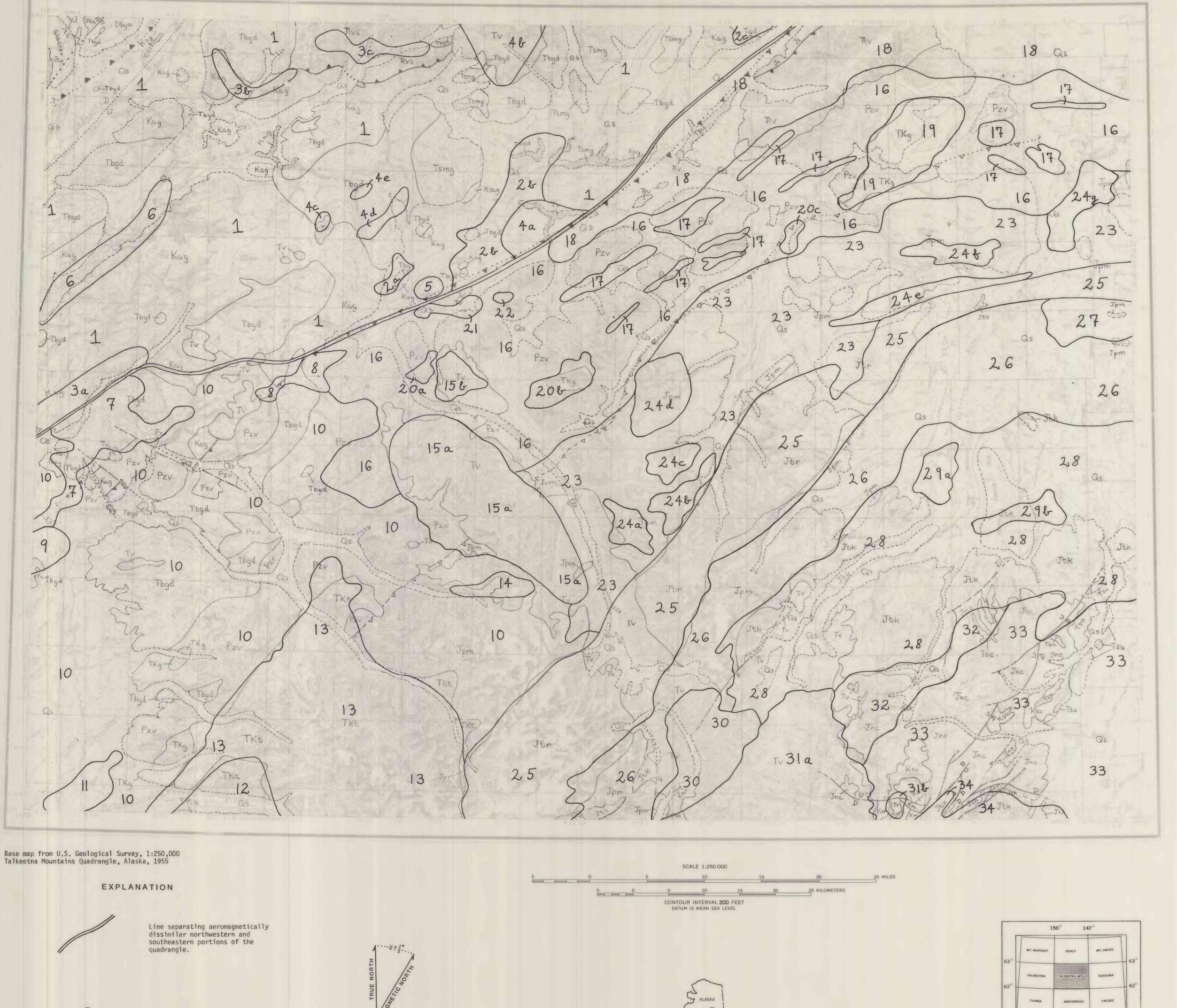
Long dashed where approximately located; short dashed where inferred; dotted where concealed. U indicates upthrown side where direction of displacement is known. Arrows indicate relative lateral movement Thrust fault

Long dashed where approximately located, dotted where concealed. Teeth indicate upthrown side.

marking a thrust fault Dotted where concealed; teeth indicate possible upthrown side of

Approximate axis of intense shear zone of variable width, possibly

postulated thrust



PRELIMINARY AEROMAGNETIC INTERPRETIVE MAP OF THE TALKEETNA MOUNTAINS QUADRANGLE, ALASKA

Magnetic anomaly or anomaly

pattern area discussed in text.

APPROXIMATE MEAN

DECLINATION, 1951

BELA CSEJTEY, JR., AND ANDREW GRISCOM

1978

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.